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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,332	04/29/2004	YUI-SHIN FRAN	12889-US-PA	3331
31561	7590	09/27/2005	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			HINES, ANNE M	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 09/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary	Application No.		Applicant(s)	
	10/709,332		FRAN ET AL.	
	Examiner		Art Unit	
	Anne M. Hines		2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10-24 is/are rejected.
- 7) ☒ Claim(s) 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

The abstract of the disclosure is objected to because on line 1 there is no space between the words "lamp" and "comprising", a similar problem occurs on lines 4, 6 and 9. Correction is required. See MPEP § 608.01(b).

The disclosure is objected to for the following informalities: There are many places where two consecutive words fail to have a space between them (e.g. "holderand" instead of "holder and" see line 9, page 2) The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

Claims 2, 6, and 20 are objected to because of the following informalities: There are places where two consecutive words fail to have a space between them (e.g. "toanedge" instead of "to an edge" in claim 2). Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

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applicant regards as the invention. In claim 15 there is "a second light control layer" but there is no first light control layer, rendering the claim indefinite. Claims 15-24 have been treated on their merits assuming that the phrase "a second light control layer" has been replaced with "a first light control layer."

Claims 11-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 11, the phrase "the second light emitting area" is unclear because it lacks antecedent basis and because no first light emitting layer exists in the claimed invention, rendering the claim indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-8, 10, 15, 19-22, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Nanto et al. (US Pat. No. 6,297,590).

Regarding claim 1, Nanto discloses a discharge plasma display panel comprising a cavity (Fig. 13, 30), having a light exit plane (Fig. 13, L); a discharge space, corresponding to the cavity (Fig. 13, 30; Column 6, line 34); a plurality of electrodes, disposed inside the cavity or outside the cavity (Fig. 13, X and Y; Column 1, line 44); a fluorescence layer, disposed on an inner wall of the cavity (Fig. 13, 24; Column 13, line

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22); and a first light control layer, disposed over the fluorescence layer (Fig. 13, 28; Column 13, lines 28-29) corresponding to the light exit plane. In a plasma display panel a discharge gas is inherently present in the discharge cavity (Fig. 13, 30) in order for the device to operate.

Regarding claim 15, Nanto discloses a discharge plasma display panel, comprising: a cavity (Fig. 13, 30), having a light exit plane and a bottom surface (Fig. 13), wherein the light exit plane is opposite to the bottom surface (Fig. 13, L); a discharge space, corresponding to the cavity (Fig. 13, 30; Column 6, line 34); a plurality of electrodes, disposed inside the cavity or outside the cavity (Fig. 13, X and Y; Column 1, line 44); and a second light control layer, disposed over the fluorescence layer on and corresponding to the bottom surface (Fig. 13, 28; Column 13, lines 28-29). In a plasma display panel a discharge gas is inherently present in the discharge cavity (Fig. 13, 30) in order for the device to operate.

Regarding claims 5 and 19, Nanto further discloses wherein each of the electrodes comprise a plurality of protrusions (Fig. 13, X and Y which protrude into dielectric 17).

Regarding claims 6 and 20, Nanto further discloses wherein the cavity is divided by the electrodes into at least one sub-cavity (Fig. 11, the sub-cavities corresponding to L1, L2, L3), and the sub-cavity is divided by the protrusions of the electrodes into a plurality of first light emitting areas (Fig. 11, e.g. portion between electrode protrusions 42 of electrodes X1 and Y1) and a plurality of second light emitting areas disposed

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between the first light emitting areas (Fig. 11, e.g. portions between electrode protrusions 42 and light shielding film 48).

Regarding claims 7 and 21, Nanto further discloses wherein the first light control layer (Fig. 13, 28) is disposed over the fluorescence layer (Fig. 13, 24) corresponding to the first light emitting area (Fig. 13, L).

Regarding claims 8 and 22, Nanto further discloses wherein a material of the first light control layer comprises a fluorescence material (Fig. 13, 28; Column 13, lines 28-29).

Regarding claims 10 and 24, Nanto further discloses wherein the first light control layer (Fig. 13, 28) comprises a single patterned film or multi-layer stacked patterned film layer (Fig. 11, where the phosphor pattern "R", "B", "G" is shown).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nanto et al. (US Pat. No. 6,297,590) and further in view of Park et al. (US Pat. No. 6,858,979).

Regarding claims 2 and 16, Nanto teaches the inventions of claims 1 and 15 and further teaches a first substrate (Fig. 13, 21), and a second substrate disposed over the

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first substrate (Fig. 13, 11). Nanto fails to teach wherein a sidebar disposed between the first and second substrates is connected to an edge of the first substrate and an edge of the second substrate. Park teaches wherein a sidebar (Fig. 5, 70; Column 4, lines 25-28) disposed between the first and second substrates is connected to an edge of the first substrate (Fig. 5, 20; Column 4, lines 25-28) and an edge of the second substrate (Fig. 5, 10; Column 4, lines 25-28) in order to separate the first and second substrates from each other by a predetermined distance (Column 4, lines 25-28).

Claims 3-4 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nanto et al. (US Pat. No. 6,297,590) and further in view of Park (US Pat. No. 6,744,195).

Regarding claims 3, 4, 17, and 18, Nanto teaches a discharge gas but fails to teach wherein the discharge gas is inert. Nanto also fails to teach wherein the discharge gas is Argon, Neon, or Xenon. Park teaches wherein the discharge gas is Xenon (Column 2, lines 44-50) in order for plasma to be formed when a voltage is applied to the electrodes (Column 2, lines 44-50). Xenon is an inert gas.

Allowable Subject Matter

Claim 9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Regarding claim 9, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 9, and specifically comprising the limitation wherein the material of the first light control layer and the fluorescence layer are the same.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anne M Hines
Patent Examiner
Art Unit 2879

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9/21/05

MS 9/22/05
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PRIMARY EXAMINER